Welcome to

Orientation Packaging and Systems Facility(PASF)

TF32- Third Floor Room#32

CeNSE-IISc



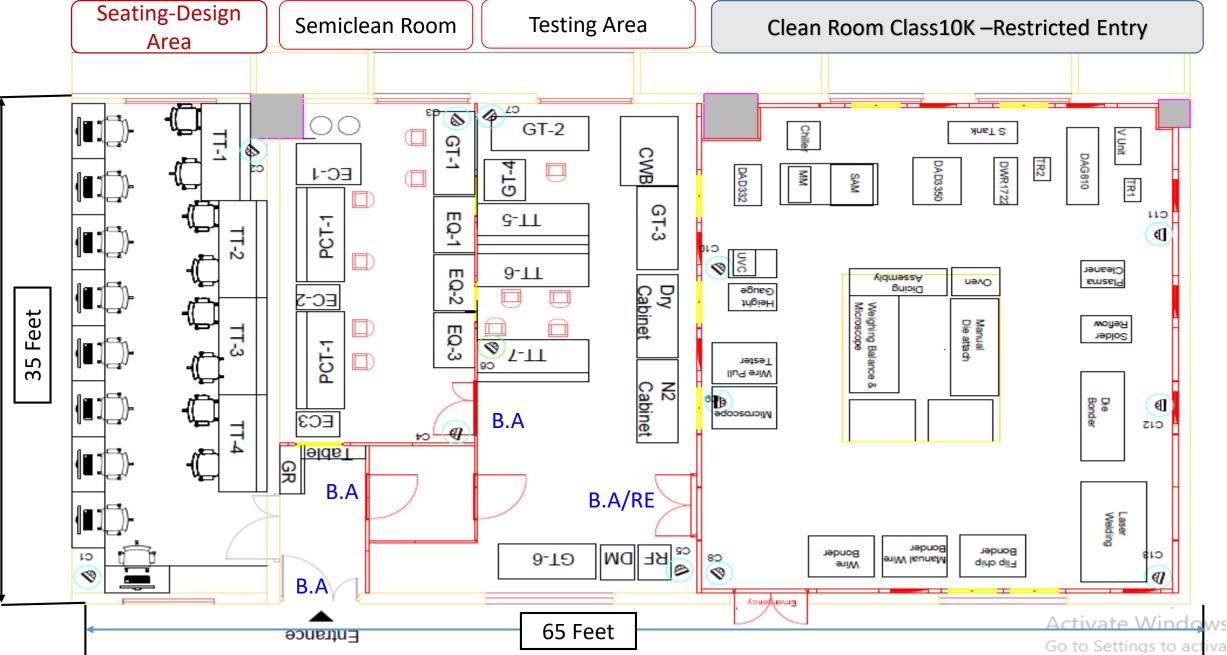
Agenda

- 1. PASF- TF 32 Layout
- 2. Team Structure of PASF
- 3. Why & What is PASF
- 4. Design Services
- 5. Equipments and Tools
- 6. Procedure for Access to PASF-TF32
- 7. Contact Details



1.0 Current Layout of PASF-TF32

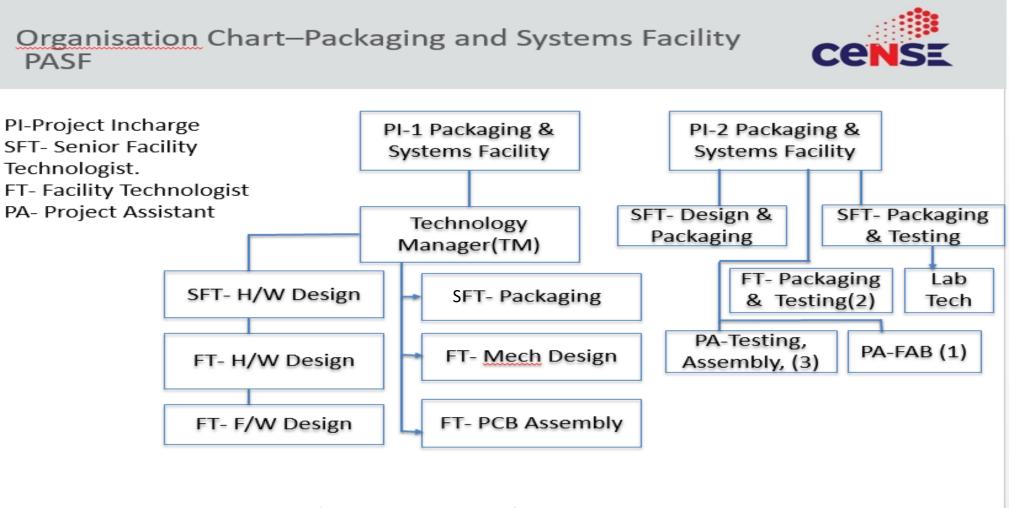






2.0 Current Team of PASF-TF32





Note:- The Team Structure changes YOY depending on Projects/Work Load



3.0 Why & What is PASF



- NNFC CeNSE IISc has MEMS or Nano Fabrication Facility
- Once Wafer is Fabricated, Characteristed.... Need to be Packaged
- Packaging involves Wafer Dicing, Die Packaging, Substrate Design
- Only a Die Designed and Fabricated means ????
- Need interface Electronics to interpret what a Die does
- System Design- Simple to complex Electronics, Mech Housing Design and Prototype Development and Testing
- TOT- For Mass Production after User/Customer Acceptance





Packaging and Systems Facility (PASF) at Centre for Nanosciences-IISc

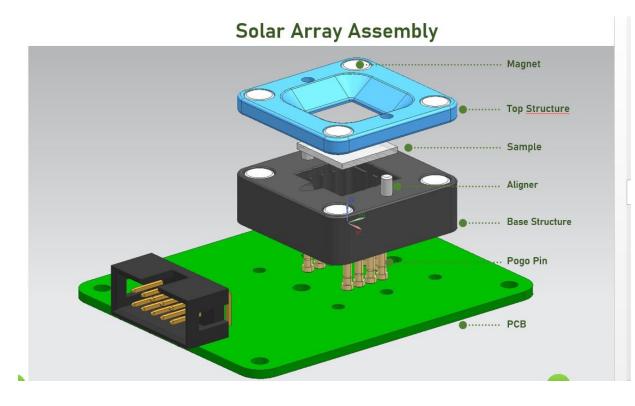


The Vision and Charter of PASF is to bring NanoTechnology to Life by offering Products , Solutions & Services from the Research Efforts at Centre for Nanosciences and Engineering –CeNSE IISc

Solutions and Services Offered

- I. Analog and Digitial Board Design- Altium.
- II. Firmware Development. STM32/Arduino/Others
- III. Mechanical Housing Design and Modelling- Solid Works
- IV. 3D Printing –Bambu Carbon Fibre Printer.
- V. Prototype Development and Transfer to Mass Production
- VI. Support TBI (Technology Business Incubation) & Startup's
- VII. Packaging of Microelectronics such as Wirebonding, Wafer Dicing, Laser Welding, Flip Chip Bonding.
- VIII. Design and Development of New Products based on Nanotechnology Research at CeNSE- IISc such as Gas Sensors, Pressure Sensors etc..
- IX. Provide Advanced Packaging Solutions with Focus on Research and Development- New (Ansys- SW)

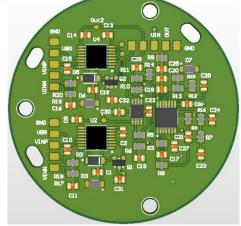
Product Photos- Solar Array Silicon Assembly

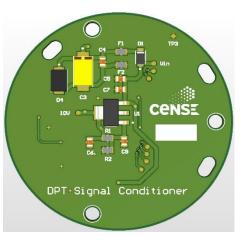




Design Services – Few Snap Shots



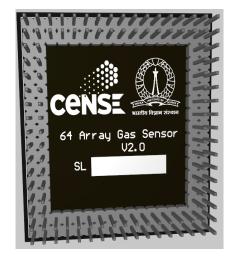






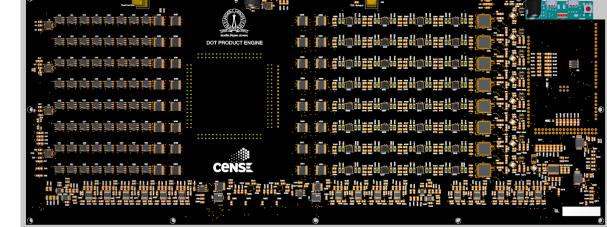
AQM Unit

Sensor Signal Conditioner PCB

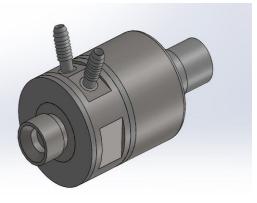


64 Array Gas Sensor

Package



6 Layer Sensor Interface Board with 3900 Components – Design and PCB Assembly



3 in 1 Sensor Package-Modelled and 3d Printed

7

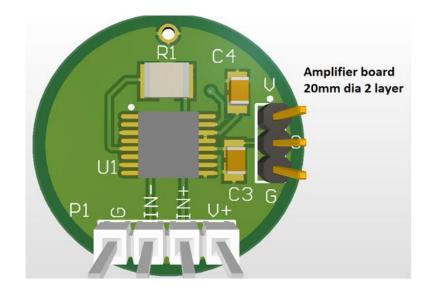


PASF- SOME PRODUCT PHOTOS DEVELOPED AT CENSE-IISC









Pressure Sensor Amplifier Board

H2S Malodour Unit

AQM Unit

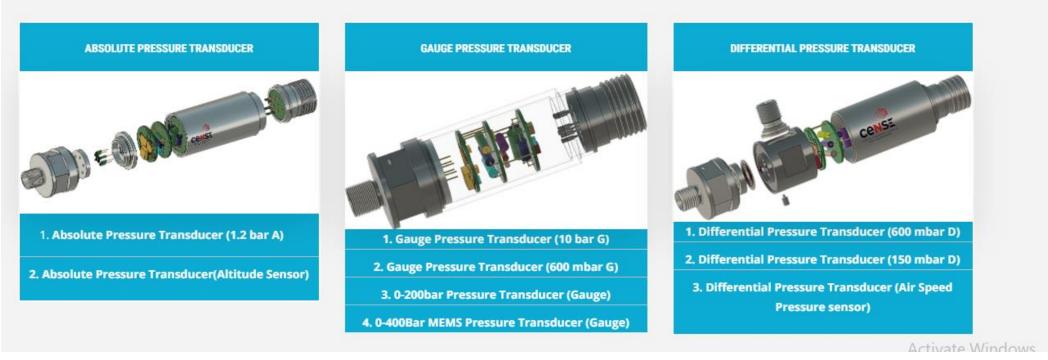
Confidential Not to be disclosed without Approval





PASF- Products Developed

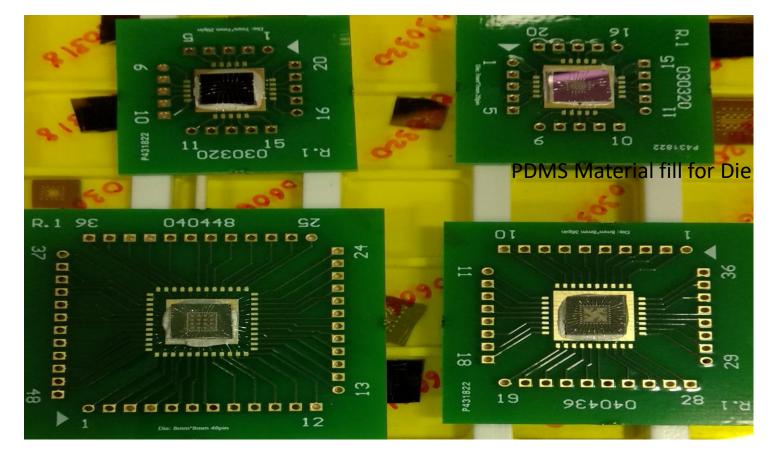
MEMS PRESSURE TRANSDUCER

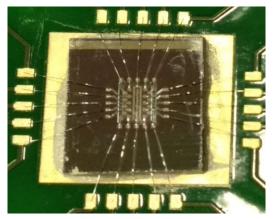


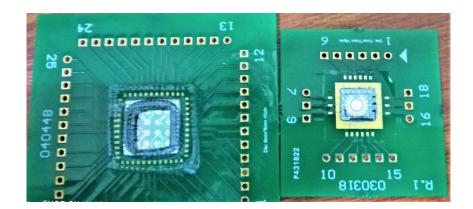
• Pressure Transducers of Various Types and Ranges

Packaging- Biosensors PCB Design and Wirebonding

- 4 Types of 2 Layer PCB Design and Procurement
- Sensor packaging 20 pin (2#), 36 & 48 Pin(1#) each







PDMS Material fill for Die







PASF-TF 32 KEY EQUIPMENT LIST



1ay 2-2024	PASF-TF32 CeNSE-IISc Equipment List				
			Staff Responsible		
SL:NO:	Tool no/SAP ID.	Tool Name	Model	Make	
1	PASF001	MTI Precision CNC Dicing Machine	5410	MTI Corp	Pavithra B
2	PASF002	Climatic chamber-Votsch - 1	VCL 7003	Votsch	Mehboob J
3	PASF003	Climatic chamber-Votsch - 2	VCL 7003	Votsch	Veera Pandi
4	PASF004	SCS Parylene Deposition system	PS2010	Speciality Coating Systems	Pavithra B
5	PASF005	Semi Automatic Wire bonder	HB16	ТРТ	Sumanth RV
6	PASF006	Laser Welding Machine	LW70AE	Miyatek	Sumanth RV
7	PASF007	Manual DC Probe Station	C Series	Everbeing	Manu Pai
8	PASF008	Helium Leak Detector	L300TL7	Leybold	Sumanth RV
9	PASF009	Fibre Laser Marking Tool	LM-BT20W	Light Mechanics	Manu Pai
10	PASF010	Automatic Dicing Saw	DAD3121	Disco	Mehboob J
11	PASF011	Pneumatic Pressure calibrator 20bar	7250	Fluke	Veera Pandi
12	PASF012	Hydraulic Pressure calibrator	P3125	Fluke	Pavithra B
13	PASF013	Hot Air Oven	DP-18702	Delta Power Controls	Sumanth RV
14	PASF014	Sand blasting Tool	922	Sirio	Pavithra B
15	PASF015	High Power Plasma Cleaner	PDC002	Harrick Plasma	Manu Pai
16	PASF016	Centrifuge	PR24	Remi	Manu Pai
17	PASF017	Pneumatic Pressure calibrator 200bar	6275i	Fluke	Veera Pandi
18	PASF018	Climate & Humidiity test Chamber	DY110C	ACS	Veera Pandi
19	PASF019	Chemical wet Bench	Local Designed and Procured		Pavithra B
20	PASF020	Soldering & Desoldering Station	S RX802 AS\845CR	Goot	Raju T
21	PASF024	Flip Chip Bonder	Sigma Fine Placer	Fine Tech	Sumanth RV
22	PASF025	Wire Bonder	HB10	TPT	Mehboob J
23	PASF021-TS20	Hydraulic Dead Weight Tester	P3215	Fluke	Pavithra B



PASF-TF 32 DESIGN SERVICES AND TESTING TOOLS



St.BO:Too Ind/SAP ID.Too INameModelMakePervitne 3024PASF021-TS01Insulation TosiarGCPT9040GW InstekPavitne 3025PASF021-TS03Function GeneratorACF03061GW InstekPavitne 3026PASF021-TS03Digital Storage oscilloscope 100MHZGDS2102InstekPavitne 3027PASF021-TS05DC Opener Supply 12/30ASDS2102InstekPavitne 3028PASF021-TS05DC Opener Supply 12/30ASDS200GW InstekPavitne 3030PASF021-TS06DC Opener Supply 30/3ASPS606GW InstekPavitne 3031PASF021-TS09Uscuum CalibratorGDM261AGW InstekPavitne 3032PASF021-TS09Uscuum Calibrator249TBuden ItergVeera Pandi33PASF021-TS10DIfferential CalibratorBC-BUtrahighxacVeera Pandi34PASF021-TS13OI Ifferential CalibratorLocal Designed and Procured	Design and Testing Services								
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27 PASF021-TS04 Digital Storage acelloscope 100M+Z GDS2102 Instek Pavithra B 28 PASF021-TS06 DC power Supply 12V20A SP5123D GW Instek Pavithra B 29 PASF021-TS06 DC power Supply 12V20A SP5806 GW Instek Pavithra B 30 PASF021-TS06 DC power Supply 12V20A SP5806 GW Instek Pavithra B 31 PASF021-TS06 Dugital Multimeter GDM261A GW Instek Pavithra B 32 PASF021-TS10 Differential Calibrator GDS414 Pfeiffer Veera Pandl 34 PASF021-TS11 Barometric Calibrator EG-8 Ultrahighvac Veera Pandl 35 PASF021-TS13 Ultra Probe Sonicator Local Designed and Procured Pavithra B 36 PASF021-TS15 Shock tube 1 Local Designed and Procured Pavithra B 37 PASF021-TS15 Shock tube 2 Local Designed and Procured Pavithra B 38 PASF021-TS16 CNC PC B Routing GMPCB302	25	PASF021-TS02	Milliohm meter	GOM802	GW Instek	Pavithra B			
28 PASF021-TS05 DC power Supply 12/200A SPS123D GW Instek Pavithra B 29 PASF021-TS06 LCR mater LCR Relat GW Instek Pavithra B 30 PASF021-TS07 DC power Supply 30V,3A SPS066 GW Instek Pavithra B 31 PASF021-TS09 Digital Mutimeter GDM8261A GW Instek Pavithra B 33 PASF021-TS10 Differential Calibrator D35614 Pfeffer Veera Pandl 34 PASF021-TS10 Differential Calibrator BdG-8 Ultrahighvac Veera Pandl 35 PASF021-TS12 Oil Filing System UH/VOFS01 Ultrahighvac Veera Pandl 36 PASF021-TS14 Shock tube 1 Local Designed and Procured Pavithra B 37 PASF021-TS16 Shock tube 2 Local Designed and Procured Pavithra B 38 PASF021-TS16 CMC COR Routing CM-PCB3020 ETS Methoob 41 PASF022-TS171 Profile Projector VL360 Opticom Veera Pand	26	PASF021-TS03	Function Generator	AFG3081	GW Instek	Pavithra B			
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36PASF021-TS13Ultra Probe SonicatorLab500Next Gen LabVeera Pandi37PASF021-TS14Shock tube 1Local Designed and ProcuredPavithra B38PASF021-TS15Shock tube 2Local Designed and ProcuredPavithra B39PASF021-TS16CNC PCB RoutingCM-PCB3020ETSMehboob40PASF021-TS17Profile ProjectorV.360OpticomVeera Pandi41PASF021-TS18Hot plateMC02TarsonRaju T42PASF022-DS-01Design Services 1- PCB Design and DevelopmentAltium 18.0AltiumJitthu/Netra/Pooja B43PASF022-DS-03Design Services 2- Embedded FirmwareEmulators/ ProgrammersSTMKeil/ArduinoJitthu/Netra/Pooja B44PASF022-DS-03Design Services 3- PCB Design and DevelopmentAltium 18.0AltiumJitthu/Netra/Pooja B45PASF022-DS-04Design Services 4- Embedded SoftwareMSVC/VB/PythonMicrosoft/Open SourceJitthu/Lohit46PASF022-DS-06Design Services 8- PCB Design and DevelopmentAltium 18.0AltiumJitthu/Lohit47PASF022-DS-06Design Services 8- PCB Design and DevelopmentAltium 18.0AltiumJitthu/Lohit48PASF022-DS-06Design Services 8- PCB Design and DevelopmentCAD/CAMCAESolid worksSumanth RV49PASF022-DS-06Design Services 8- PCB Design and DevelopmentCAD/CAMCAESolid worksJitthu/Lohit49PASF022-DS-07DC power	34	PASF021-TS11	Barometric Calibrator	BC-8	Ultrahighvac	Veera Pandi			
37PASF021-TS14Shock tube 1Local Designed and ProcuredPavithra B38PASF021-TS15Shock tube 2Local Designed and ProcuredPavithra B39PASF021-TS16CNC PCB RoutingCM-PCB3020ETSMehboob40PASF021-TS17Profile ProjectorVL360OpticomVeera Pandi41PASF022-TS17Interpret Profile ProjectorVL360OpticomVeera Pandi42PASF022-DS-01Design Services1-PCB Design and DevelopmentAltium 18.0AltiumJitthu/Netra/Pooja B43PASF022-DS-02Design Services2-Embedded FirmwareEmulators/ ProgrammersSTMKeil/ArduinoJitthu/Lohit44PASF022-DS-03Design Services2-Embedded FirmwareMKVC/VB/PthonMicrosoft/Open SourceJitthu/Lohit45PASF022-DS-04Design Services3-PCB Design and DevelopmentAltium 18.0AltiumJitthu/Netra/Pooja B46PASF022-DS-05Design Services3-PCB Design and DevelopmentAltium 18.0AltiumJitthu/Netra/Pooja B47PASF022-DS-06Design Services6-Mech Design & DevelopmentCAD/CAWCAESolid WorksSumath RV48PASF022-DS-07DC power supply-1 GPS2303GPS-2303GW InstekJitthu/Lohit50PASF022-DS-10Function Generatort HP33120AHPJitthu/Lohit51PASF022-DS-10Function Generatort HP33120AGDM8261AGW InstekJitthu/Lohit52PASF022-DS-13Digital multimeter-2 GDM8261AGDM8261AGW	35	PASF021-TS12	Oil Filling System	UHVOFS01	Ultrahighvac	Veera Pandi			
38PASF021-TS15Shock tube 2Local Designed and ProcuredPavithra B39PASF021-TS16CNC PCB RoutingCM-PCB3020ETSMehboob40PASF021-TS17Profile ProjectorVL360OpticomVera Pandi41PASF021-TS18Hot plateMC02TarsonRaju T42PASF022-DS-01Design Services1- PCB Design and DevelopmentAltium 18.0AltiumJitthu/Netra/Pooja B43PASF022-DS-03Design Services2-PCB Design and DevelopmentAltium 18.0AltiumJitthu/Netra/Pooja B44PASF022-DS-03Design Services2-PCB Design and DevelopmentAltium 18.0AltiumJitthu/Netra/Pooja B45PASF022-DS-04Design Services3-PCB Design and DevelopmentAltium 18.0AltiumJitthu/Netra/Pooja B46PASF022-DS-06Design Services3-PCB Design and DevelopmentCAD/CAWCAESolid WorksSummt RV48PASF022-DS-06Design Services6-Mech Design & DevelopmentCAD/CAWCAESolid WorksSummt RV49PASF022-DS-08Digital multimeter-1 GDM 8261AGDM8261AGW InstekJitthu/Lohit51PASF022-DS-09Signal GeneratorAM300Robe & SchwarzJitthu/Lohit52PASF022-DS-11DC power supply-2 GPS2303GPS-2303GW InstekJitthu/Lohit53PASF022-DS-13Digital multimeter-2 GDM 8261AGDM8261AGW InstekJitthu/Lohit54PASF022-DS-14DC power supply-2 GPS2303GPS-2303GW InstekJitt	36	PASF021-TS13	Ultra Probe Sonicator	Lab500	Next Gen Lab	Veera Pandi			
39PASF021-TS16CNC PCB RoutingCM-PCB3020ETSMehboob40PASF021-TS17Profile ProjectorV.360OpticomVeera Pandi41PASF021-TS18Hot plateMC02TarsonRaju T42PASF022-DS-01Design Services 1-PCB Design and DevelopmentAltium 18.0AltiumJitthu/Netra/Pooja B43PASF022-DS-02Design Services 2-Embedded FirmwareEmulators/ ProgrammersSTMKeil/ArduinoJitthu/Netra/Pooja B44PASF022-DS-03Design Services 2-PCB Design and DevelopmentAltium 18.0AltiumJitthu/Netra/Pooja B45PASF022-DS-04Design Services 3- PCB Design and DevelopmentAltium 18.0AltiumJitthu/Netra/Pooja B46PASF022-DS-05Design Services 3- PCB Design and DevelopmentAltium 18.0AltiumJitthu/Netra/Pooja B47PASF022-DS-06Design Services 6-Mech Design & DevelopmentCAD/CAM/CAESolid WorksSumant RV48PASF022-DS-08Digital multimeter-1 GDM 8261AGDM8261AGW InstekJitthu/Lohit50PASF022-DS-09Signal GeneratorAM300Rohe & SchwarzJitthu/Lohit51PASF022-DS-10Function Generator1 HP33120AHP3120AHPJitthu/Lohit52PASF022-DS-12Digital Multimeter-2 GDM 8261AGDM/8261AGW InstekJitthu/Lohit53PASF022-DS-13Digital Storage Oscilloscope GW InstekGDS-1102A-UGW InstekJitthu/Lohit54PASF022-DS-14Source MonitorSMU 4450	37	PASF021-TS14	Shock tube 1	Local Designed and Procured		Pavithra B			
40PASF021-TS17Profile ProjectorVL360OpticomVeera Pandi41PASF021-TS18Hot plateMC02TarsonRaju T42PASF022-DS-01Design Services 1- PCB Design and DevelopmentAltium 18.0AltiumJitthu/Netra/Pooja B43PASF022-DS-02Design Services 2- Embedded FirmwareEmulators/ ProgrammersSTMKeil/ArduinoJitthu/Netra/Pooja B44PASF022-DS-03Design Services 2- PCB Design and DevelopmentAltium 18.0AltiumJitthu/Netra/Pooja B45PASF022-DS-04Design Services 3- PCB Design and DevelopmentMSVC/VB/PythonMicrosoft/Open SourceJitthu/Lohit46PASF022-DS-05Design Services 3- PCB Design and DevelopmentAltium 18.0AltiumJitthu/Lohit47PASF022-DS-06Design Services 3- PCB Design and DevelopmentCAD/CAM/CAESolid WorksSumanth RV48PASF022-DS-07DC power supply-1 GPS2303GPS-2303GW InstekJitthu/Lohit49PASF022-DS-08Digital multimeter-1 GDM 8261AGDM8261AGW InstekJitthu/Lohit51PASF022-DS-10Function GeneratorAM300Rohe & SchwarzJitthu/Lohit52PASF022-DS-13Digital multimeter-2 GDM 8261AGDM8261AGW InstekJitthu/Lohit53PASF022-DS-14Dcy power supply-2 GPS2303GPS-2303GW InstekJitthu/Lohit54PASF022-DS-13Digital Storage Oscilloscope GW InstekGDS-1102A-UGW InstekJitthu/Lohit55PASF022-DS-14	38	PASF021-TS15	Shock tube 2	Local Designed and Procured		Pavithra B			
40PASF021-TS17Profile ProjectorVL360OpticomVeera Pandi41PASF021-TS18Hot plateMC02TarsonRaju T42PASF022-DS-01Design Services1-PCB Design and DevelopmentAltium 18.0AltiumJittu/Netra/Pooja B43PASF022-DS-03Design Services2-Embedded FirmwareEmulators/ ProgrammersSTWKeil/ArduinoJittu/Netra/Pooja B44PASF022-DS-03Design Services2-Embedded SoftwareMSVC/VB/PythonMicrosoft/Open SourceJittu/Netra/Pooja B45PASF022-DS-05Design Services3-PCB Design and DevelopmentAltium 18.0AltiumJittu/Netra/Pooja B46PASF022-DS-05Design Services3-PCB Design and DevelopmentAltium 18.0AltiumJittu/Netra/Pooja B47PASF022-DS-06Design Services3-PCB Design and DevelopmentCAD/CAM/CAESolid WorksSumanth RV48PASF022-DS-07DC power supply-1 GPS2303GPS-2303GW InstekJittu/Lohit49PASF022-DS-08Digital multimeter-1 GDM 8261AGDM8261AGW InstekJittu/Lohit51PASF022-DS-10Function Generator1 HP33120AHP33120AHPJittu/Lohit53PASF022-DS-13Digital multimeter-2 GDM 8261AGDM8261AGW InstekJittu/Lohit54PASF022-DS-14Digital Storage Oscilloscope GW InstekGDM261AHPJittu/Lohit55PASF022-DS-15Function Generator2 HP33120AHPJittu/Lohit56PASF022-DS-16Function Generator2 HP33120AHP	39	PASF021-TS16	CNC PCB Routing	CM-PCB3020	ETS	Mehboob			
42PASF022-DS-01Design Services 1- PCB Design and DevelopmentAltium 18.0AltiumJitthu/Netra/Pooja B43PASF022-DS-02Design Services 2- Embedded FirmwareEmulators/ ProgrammersSTM/Keil/ArduinoJitthu/Lohit44PASF022-DS-03Design Services 2- PCB Design and DevelopmentAltium 18.0AltiumJitthu/Lohit45PASF022-DS-04Design Services 4- Embedded SoftwareMSVC/VB/PythonMicrosoft/Open SourceJitthu/Netra/Pooja B46PASF022-DS-05Design Services 3- PCB Design and DevelopmentAltium 18.0AltiumJitthu/Netra/Pooja B47PASF022-DS-06Design Services 3- PCB Design and DevelopmentCAD/CA/WCAESolid worksSumanth RV48PASF022-DS-06Design Services 0-Design & DevelopmentCAD/CA/WCAESolid worksSumanth RV49PASF022-DS-08Digital multimeter-1 GDM 8261AGDM2261AGW InstekJitthu/Lohit50PASF022-DS-10Function Generator1 HP33120AHP33120AHPJitthu/Lohit51PASF022-DS-11DC power supply-2 GPS2303GPS-2303GW InstekJitthu/Lohit52PASF022-DS-13Digital multimeter-2 GDM 8261AGDM8261AGW InstekJitthu/Lohit53PASF022-DS-13Digital Storage Oscilloscope GW InstekGDM2261AGW InstekJitthu/Lohit54PASF022-DS-13Digital Storage Oscilloscope GW InstekGDS-1102A-UGW InstekJitthu/Lohit55PASF022-DS-15Function Generator1 HP33120AHP33120AHP<	40	PASF021-TS17		VL360	Opticom	Veera Pandi			
43PASF022-DS-02Design Service2 - Embedded FirmwareEmulators/ ProgrammersSTM/Keil/ArduinoJitthu/Lohit44PASF022-DS-03Design Services 2-PCB Design and DevelopmentAltium 18.0AltiumJitthu/Lohit45PASF022-DS-04Design Services 3- PCB Design and DevelopmentMSVC/VB/PythonMicrosoft/Open SourceJitthu/Lohit46PASF022-DS-06Design Services 3- PCB Design and DevelopmentAltium 18.0AltiumJitthu/Lohit47PASF022-DS-06Design Services 6-Mech Design & DevelopmentCAD/CAW/CAESolid WorksSumanth RV48PASF022-DS-06Design Services 6-Mech Design & DevelopmentCAD/CAW/CAEGW InstekJitthu/Lohit49PASF022-DS-08Digital multimeter-1 GDM 8261AGDM8261AGW InstekJitthu/Lohit50PASF022-DS-09Signal GeneratorAM300Rohe & SchwarzJitthu/Lohit51PASF022-DS-10Function Generator1 HP33120AHP33120AHPJitthu/Lohit52PASF022-DS-11DC power supply-2 GPS203GPS-2303GW InstekJitthu/Lohit53PASF022-DS-13Digital multimeter-2 GDM 8261AGDM8261AGW InstekJitthu/Lohit54PASF022-DS-14Do gover supply-2 GPS203GPS-2303GW InstekJitthu/Lohit55PASF022-DS-13Digital Storage Oscilloscope GW InstekGDM8261AGW InstekJitthu/Lohit56PASF022-DS-14Source MonitorSMU 2450KeithleyJitthu/Lohit57PASF022-DS-16F	41	PASF021-TS18	Hot plate	MC02	Tarson	Raju T			
44PASF022-DS-03Design Services 2- PCB Design and DevelopmentAltium 18.0AltiumJitthu/Netra/Pooja B45PASF022-DS-04Design Services 4- Embedded SoftwareMSVC/VB/PythonMicrosoft/Open SourceJitthu/Lohit46PASF022-DS-05Design Services 3- PCB Design and DevelopmentAltium 18.0AltiumJitthu/Netra/Pooja B47PASF022-DS-06Design Services 3- PCB Design & DevelopmentCAD/CAW/CAESolid WorksSumanth RV48PASF022-DS-07DC power supply-1 GPS2303GPS-2303GW InstekJitthu/Lohit49PASF022-DS-08Digital multimeter-1 GDM 8261AGDM8261AGW InstekJitthu/Lohit50PASF022-DS-09Signal GeneratorAM300Rohde & SchwarzJitthu/Lohit51PASF022-DS-10Function Generator1 HP33120AHP33120AHPJitthu/Lohit52PASF022-DS-11DC power supply-2 GPS2303GPS-2303GW InstekJitthu/Lohit53PASF022-DS-12Digital multimeter-2 GDM 8261AGDM8261AGW InstekJitthu/Lohit54PASF022-DS-13Digital Storage Oscilloscope GW InstekGDS-1102A-UGW InstekJitthu/Lohit55PASF022-DS-14Source MonitorSMU 2450KeithleyJitthu/Lohit56PASF022-DS-15Function Generator2 HP33120AHP33120AHPJitthu/Lohit57PASF022-DS-16LCR METERTH2817BTonghuiJitthu/Lohit	42	PASF022-DS-01	Design Services1- PCB Design and Development	Altium 18.0	Altium	Jitthu/Netra/Pooja B			
45PASF022-DS-04Design Services 4- Embedded SoftwareMSVC/VB/PythonMicrosoft/Open SourceJitthu/Lohit46PASF022-DS-05Design Services 3- PCB Design and DevelopmentAltium 18.0AltiumJitthu/Netra/Pooja B47PASF022-DS-06Design Services 6-Mech Design & DevelopmentCAD/CAW/CAESolid WorksSumanth RV48PASF022-DS-07DC power supply-1 GPS2303GPS-2303GW InstekJitthu/Lohit49PASF022-DS-08Digital multimeter-1 GDM 8261AGDM8261AGW InstekJitthu/Lohit50PASF022-DS-09Signal GeneratorAM300Rohde & SchwarzJitthu/Lohit51PASF022-DS-10Function Generator1 HP33120AHP33120AHPJitthu/Lohit52PASF022-DS-11DC power supply-2 GPS2303GPS-2303GW InstekJitthu/Lohit53PASF022-DS-12Digital multimeter-2 GDM 8261AGDM8261AGW InstekJitthu/Lohit54PASF022-DS-13Digital Storage Oscilloscope GW InstekGDS-1102A-UGW InstekJitthu/Lohit55PASF022-DS-14Source MonitorSMU 2450KeithleyJitthu/Lohit56PASF022-DS-15Function Generator 2 HP33120AHP33120AHPJitthu/Lohit57PASF022-DS-16LCR METERTH2817BTonghuiJitthu/Lohit	43	PASF022-DS-02	Design Service2 -Embedded Firmware	Emulators/ Programmers	STWKeil/Arduino	Jitthu/Lohit			
46PASF022-DS-05Design Services 3- PCB Design and DevelopmentAltium 18.0AltiumJitthu/Netra/Pooja B47PASF022-DS-06Design Services6-Mech Design & DevelopmentCAD/CAWCAESolid WorksSumanth RV48PASF022-DS-07DC power supply-1 GPS2303GPS-2303GW InstekJitthu/Lohit49PASF022-DS-08Digital multimeter-1 GDM 8261AGDM8261AGW InstekJitthu/Lohit50PASF022-DS-09Signal GeneratorAM300Rohde & SchwarzJitthu/Lohit51PASF022-DS-10Function Generator1 HP33120AHP33120AHPJitthu/Lohit52PASF022-DS-11DC power supply-2 GPS2303GPS-2303GW InstekJitthu/Lohit53PASF022-DS-12Digital multimeter-2 GDM 8261AGDM8261AGW InstekJitthu/Lohit54PASF022-DS-13Digital Storage Oscilloscope GW InstekGDS-1102A-UGW InstekJitthu/Lohit55PASF022-DS-14Source MonitorSMU 2450KeithleyJitthu/Lohit56PASF022-DS-15Function Generator2 HP33120AHP33120AHPJitthu/Lohit57PASF022-DS-16LCR METERTH2817BTonghuiJitthu/Lohit	44	PASF022-DS-03	Design Services 2- PCB Design and Development	Altium 18.0	Altium	Jitthu/Netra/Pooja B			
47PASF022-DS-06Design Services6-Mech Design & DevelopmentCAD/CAW/CAESolid WorksSumanth RV48PASF022-DS-07DC power supply-1 GPS2303GPS-2303GW InstekJitthu/Lohit49PASF022-DS-08Digital multimeter-1 GDM 8261AGDM8261AGW InstekJitthu/Lohit50PASF022-DS-09Signal GeneratorAM300Rohde & SchwarzJitthu/Lohit51PASF022-DS-10Function Generator1 HP33120AHP33120AHPJitthu/Lohit52PASF022-DS-11DC power supply-2 GPS2303GPS-2303GW InstekJitthu/Lohit53PASF022-DS-12Digital multimeter-2 GDM 8261AGDM8261AGW InstekJitthu/Lohit54PASF022-DS-13Digital Storage Oscilloscope GW InstekGDS-1102A-UGW InstekJitthu/Lohit55PASF022-DS-14Source MonitorSMU 2450KeithleyJitthu/Lohit56PASF022-DS-15Function Generator2 HP33120AHP33120AHPJitthu/Lohit57PASF022-DS-16LCR METERTh2817BTonghuiJitthu/Lohit	45	PASF022-DS-04	Design Services4- Embedded Software	MSVC/VB/Python	Microsoft/Open Source	Jitthu/Lohit			
48PASF022-DS-07DC power supply-1 GPS2303GPS-2303GW InstekJitthu/Lohit49PASF022-DS-08Digital multimeter-1 GDM 8261AGDM 8261AGW InstekJitthu/Lohit50PASF022-DS-09Signal GeneratorAM300Rohde & SchwarzJitthu/Lohit51PASF022-DS-10Function Generator1 HP33120AHP33120AHPJitthu/Lohit52PASF022-DS-11DC power supply-2 GPS2303GPS-2303GW InstekJitthu/Lohit53PASF022-DS-12Digital multimeter-2 GDM 8261AGDM 8261AGW InstekJitthu/Lohit54PASF022-DS-13Digital Storage Oscilloscope GW InstekGDS-1102A-UGW InstekJitthu/Lohit55PASF022-DS-14Source MonitorSMU 2450KeithleyJitthu/Lohit56PASF022-DS-15Function Generator2 HP33120AHP33120AHPJitthu/Lohit57PASF022-DS-16LCR METERTH2817BTonghuiJitthu/Lohit	46	PASF022-DS-05	Design Services 3- PCB Design and Development	Altium 18.0	Altium	Jitthu/Netra/Pooja B			
48PASF022-DS-07DC power supply-1 GPS2303GPS-2303GW InstekJitthu/Lohit49PASF022-DS-08Digital multimeter-1 GDM 8261AGDM8261AGW InstekJitthu/Lohit50PASF022-DS-09Signal GeneratorAM300Rohde & SchwarzJitthu/Lohit51PASF022-DS-10Function Generator1 HP33120AHP33120AHPJitthu/Lohit52PASF022-DS-11DC power supply-2 GPS2303GPS-2303GW InstekJitthu/Lohit53PASF022-DS-12Digital multimeter-2 GDM 8261AGDM8261AGW InstekJitthu/Lohit54PASF022-DS-13Digital Storage Oscilloscope GW InstekGDS-1102A-UGW InstekJitthu/Lohit55PASF022-DS-14Source MonitorSMU 2450KeithleyJitthu/Lohit56PASF022-DS-15Function Generator2 HP33120AHP33120AHPJitthu/Lohit57PASF022-DS-16LCR METERTH2817BTonghuiJitthu/Lohit	47	PASF022-DS-06	Design Services6-Mech Design & Development	CAD/CAM/CAE	Solid Works	Sumanth RV			
49PASF022-DS-08Digital multimeter-1 GDM 8261AGDM 8261AGW InstekJitthu/Lohit50PASF022-DS-09Signal GeneratorAM300Rohde & SchwarzJitthu/Lohit51PASF022-DS-10Function Generator1 HP33120AHP33120AHPJitthu/Lohit52PASF022-DS-11DC power supply-2 GPS2303GPS-2303GW InstekJitthu/Lohit53PASF022-DS-12Digital multimeter-2 GDM 8261AGDM 8261AGW InstekJitthu/Lohit54PASF022-DS-13Digital Storage Oscilloscope GW InstekGDS-1102A-UGW InstekJitthu/Lohit55PASF022-DS-14Source MonitorSMU 2450KeithleyJitthu/Lohit56PASF022-DS-15Function Generator2 HP33120AHP33120AHPJitthu/Lohit57PASF022-DS-16LCR METERTH2817BTonghuiJitthu/Lohit	48	PASF022-DS-07		GPS-2303	GW Instek	Jitthu/Lohit			
51PASF022-DS-10Function Generator1 HP33120AHP33120AHPJitthu/Lohit52PASF022-DS-11DC power supply-2 GPS2303GPS-2303GW InstekJitthu/Lohit53PASF022-DS-12Digital multimeter-2 GDM 8261AGDM8261AGW InstekJitthu/Lohit54PASF022-DS-13Digital Storage Oscilloscope GW InstekGDS-1102A-UGW InstekJitthu/Lohit55PASF022-DS-14Source MonitorSMU 2450KeithleyJitthu/Lohit56PASF022-DS-15Function Generator2 HP33120AHP33120AHPJitthu/Lohit57PASF022-DS-16LCR METERTH2817BTonghuiJitthu/Lohit	49	PASF022-DS-08	Digital multimeter-1 GDM 8261A	GDM8261A	GW Instek	Jitthu/Lohit			
52PASF022-DS-11DC power supply-2 GPS2303GPS-2303GW InstekJitthu/Lohit53PASF022-DS-12Digital multimeter-2 GDM 8261AGDM8261AGW InstekJitthu/Lohit54PASF022-DS-13Digital Storage Oscilloscope GW InstekGDS-1102A-UGW InstekJitthu/Lohit55PASF022-DS-14Source MonitorSMU 2450KeithleyJitthu/Lohit56PASF022-DS-15Function Generator2 HP33120AHP33120AHPJitthu/Lohit57PASF022-DS-16LCR METERTH2817BTonghuiJitthu/Lohit	50	PASF022-DS-09	Signal Generator	AM300	Rohde & Schwarz	Jitthu/Lohit			
53PASF022-DS-12Digital multimeter-2 GDM 8261AGDM8261AGW InstekJitthu/Lohit54PASF022-DS-13Digital Storage Oscilloscope GW InstekGDS-1102A-UGW InstekJitthu/Lohit55PASF022-DS-14Source MonitorSMU 2450KeithleyJitthu/Lohit56PASF022-DS-15Function Generator2 HP33120AHP33120AHPJitthu/Lohit57PASF022-DS-16LCR METERTH2817BTonghuiJitthu/Lohit	51	PASF022-DS-10	Function Generator1 HP33120A	HP33120A	НР	Jitthu/Lohit			
53PASF022-DS-12Digital multimeter-2 GDM 8261AGDM8261AGW InstekJitthu/Lohit54PASF022-DS-13Digital Storage Oscilloscope GW InstekGDS-1102A-UGW InstekJitthu/Lohit55PASF022-DS-14Source MonitorSMU 2450KeithleyJitthu/Lohit56PASF022-DS-15Function Generator2 HP33120AHP33120AHPJitthu/Lohit57PASF022-DS-16LCR METERTH2817BTonghuiJitthu/Lohit	52	PASF022-DS-11	DC power supply-2 GPS2303	GPS-2303	GW Instek	Jitthu/Lohit			
55PASF022-DS-14Source MonitorSMU 2450KeithleyJitthu/Lohit56PASF022-DS-15Function Generator2 HP33120AHP33120AHPJitthu/Lohit57PASF022-DS-16LCR METERTH2817BTonghuiJitthu/Lohit	53	PASF022-DS-12	Digital multimeter-2 GDM 8261A	GDM8261A	GW Instek	Jitthu/Lohit			
56PASF022-DS-15Function Generator2 HP33120AHP33120AHPJitthu/Lohit57PASF022-DS-16LCR METERTH2817BTonghuiJitthu/Lohit	54	PASF022-DS-13	Digital Storage Oscilloscope GW Instek	GDS-1102A-U	GW Instek	Jitthu/Lohit			
56PASF022-DS-15Function Generator2 HP33120AHP33120AHPJitthu/Lohit57PASF022-DS-16LCR METERTH2817BTonghuiJitthu/Lohit	55	PASF022-DS-14	Source Monitor	SMU 2450	Keithley	Jitthu/Lohit			
57 PASF022-DS-16 LCR METER TH2817B Tonghui Jitthu/Lohit	56	PASF022-DS-15	Function Generator2 HP33120A	HP33120A					
	57	PASF022-DS-16	LCR METER	TH2817B	Tonghui				
	58	1		X1-Carbon					





Simple Steps

- 1. Check with your Prof what Equipment/Tools/Design Services u need
- 2. Request a mail for User Agreement from PASF Website
- 3. Procedure for Biometric Access, Facility online Manager (FOM) will be provided after signed User Agreement is given to PASF TM.
- 4. Login to FOM and enter all details.
- 5. Check the Equipment List in FOM and discuss with FT/SFT before booking slots.
- 6. Links are below

http://www.bio.cense.iisc.ac.in

http://facilitybooking.cense.iisc.ac.in/fom/





Generic Rules for PASF Useage

- Booking of All Equipments/ Facilities Under FOM is compulsory
- Safety Rules to be Followed
- > FT/SFT to be contacted for all Services Like Design, Development, Facility or Equipment Useage
- > Compulsory to use Shoe Cover/ Gown if it is Clean Room or Semi Clean Room Area
- Procedures like Operating Manual and FT/SFT Instructions for Services Useage



PASF CONTACT, FEEDBACK & QUERIES??



For More Details Please visit the Systems and Packaging Website

http://www.sysefandpackagingfacility.cense.iisc.ac.in//

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